RAW SEQUENCE LISTING DATE: 05/09/2000
PATENT APPLICATION: US/09/552,272 TIME: 16:10:11

Input Set : A:\9136600.app
Output Set: N:\CRF3\05092000\I552272.raw

```
      3 <110> APPLICANT: THE UNIVERSITY OF MEDICINE AND DENTISTRY
      5 <120> TITLE OF INVENTION: COLD-SHOCK REGULATORY ELEMENTS, CONSTRUCTS THEREOF, AND
      6       METHODS OF USE
      8 <130> FILE REFERENCE: 913.6600PCT
C--> 10 <140> CURRENT APPLICATION NUMBER: US/09/552,272
C--> 11 <141> CURRENT FILING DATE: 2000-04-19
     13 <160> NUMBER OF SEQ ID NOS: 71
     15 <170> SOFTWARE: PatentIn Ver. 2.0
     17 <210> SEQ ID NO: 1
     18 <211> LENGTH: 14
     19 <212> TYPE: RNA
     20 <213> ORGANISM: E. coli
     22 <400> SEQUENCE: 1
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     26 <211> LENGTH: 14
     27 <212> TYPE: RNA
     28 <213> ORGANISM: E. coli
     30 <400> SEQUENCE: 2
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     33 <210> SEQ ID NO: 3
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     35 <212> TYPE: RNA
     36 <213> ORGANISM: E. coli
     38 <400> SEQUENCE: 3
     39 augacugguu ucgu                                                  14
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     43 <212> TYPE: RNA
     44 <213> ORGANISM: E. coli
     46 <400> SEQUENCE: 4
     47 augacugguu uagu                                                  14
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     50 <211> LENGTH: 14
     51 <212> TYPE: RNA
     52 <213> ORGANISM: E. coli
     54 <400> SEQUENCE: 5
     55 augaguuaug uaga                                                  14
     57 <210> SEQ ID NO: 6
     58 <211> LENGTH: 14
     59 <212> TYPE: RNA
     60 <213> ORGANISM: E. coli
     62 <400> SEQUENCE: 6
     63 auggcgaaaa gaau                                                  14
     65 <210> SEQ ID NO: 7
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     67 <212> TYPE: RNA
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Input Set : A:\9136600.app
Output Set: N:\CRF3\05092000\I552272.raw

68 <213> ORGANISM: Artificial Sequence
70 <220> FEATURE:
71 <223> OTHER INFORMATION: Description of Artificial Sequence: mRNA construct
73 <220> FEATURE:
74 <223> OTHER INFORMATION: n = g, c, u or a
76 <220> FEATURE:
77 <223> OTHER INFORMATION: This sequence may encompass a construct wherein
78 the "n" region may be 0-30.
80 <400> SEQUENCE: 7
W--> 81 **augnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnaugacug guaucgu** 47
83 <210> SEQ ID NO: 8
84 <211> LENGTH: 47
85 <212> TYPE: DNA
86 <213> ORGANISM: Artificial Sequence
88 <220> FEATURE:
89 <223> OTHER INFORMATION: Description of Artificial Sequence: DNA which
90 encodes for the mRNA construct
92 <220> FEATURE:
93 <223> OTHER INFORMATION: n = g, c, t, or a
95 <220> FEATURE:
96 <223> OTHER INFORMATION: This sequence may encompass a construct wherein
97 the "n" region may be 0-30.
99 <400> SEQUENCE: 8
W--> 100 **atgnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnatgactg gtatcgt** 47
102 <210> SEQ ID NO: 9
103 <211> LENGTH: 15
104 <212> TYPE: DNA
105 <213> ORGANISM: E. coli
107 <220> FEATURE:
108 <221> NAME/KEY: MOD_RES
W--> 109 **<220> FEATURE: (5)**
W--> 109 **<220> FEATURE: (5)**
110 <223> OTHER INFORMATION: a substituted by t
W--> 112 **<220> FEATURE:**
113 <221> NAME/KEY: MOD_RES
W--> 114 **<220> FEATURE: (6)**
W--> 114 **<220> FEATURE: (6)**
115 <223> OTHER INFORMATION: t substituted by c
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118 <221> NAME/KEY: MOD_RES
W--> 119 **<220> FEATURE: (9)**
W--> 119 **<220> FEATURE: (9)**
120 <223> OTHER INFORMATION: a substituted by g
122 <400> SEQUENCE: 9
W--> 123 **aattnntana ggtaa** 15
125 <210> SEQ ID NO: 10
126 <211> LENGTH: 15
127 <212> TYPE: DNA
128 <213> ORGANISM: E. coli

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Input Set : A:\9136600.app
Output Set: N:\CRF3\05092000\I552272.raw

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131 acggttctag acgta 15
133 <210> SEQ ID NO: 11
134 <211> LENGTH: 20
135 <212> TYPE: DNA
136 <213> ORGANISM: Artificial Sequence
138 <220> FEATURE:
139 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer
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142 cggcattaag taagcagttg 20
144 <210> SEQ ID NO: 12
145 <211> LENGTH: 33
146 <212> TYPE: DNA
147 <213> ORGANISM: Artificial Sequence
149 <220> FEATURE:
150 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer
152 <400> SEQUENCE: 12
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155 <210> SEQ ID NO: 13
156 <211> LENGTH: 22
157 <212> TYPE: DNA
158 <213> ORGANISM: Artificial Sequence
160 <220> FEATURE:
161 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer
163 <400> SEQUENCE: 13
164 cggaattcag cctgtaatct ct 22
166 <210> SEQ ID NO: 14
167 <211> LENGTH: 24
168 <212> TYPE: DNA
169 <213> ORGANISM: Artificial Sequence
171 <220> FEATURE:
172 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer
174 <400> SEQUENCE: 14
175 ctgtcgactt acttacggcg ttgc 24
177 <210> SEQ ID NO: 15
178 <211> LENGTH: 19
179 <212> TYPE: DNA
180 <213> ORGANISM: Artificial Sequence
182 <220> FEATURE:
183 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer
185 <400> SEQUENCE: 15
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189 <211> LENGTH: 15
190 <212> TYPE: DNA
191 <213> ORGANISM: Artificial Sequence
193 <220> FEATURE:
194 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer
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Input Set : A:\9136600.app
Output Set: N:\CRF3\05092000\I552272.raw

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200 <211> LENGTH: 28
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202 <213> ORGANISM: Artificial Sequence
204 <220> FEATURE:
205 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer
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208 ccttgctagc cgattaatca taaatatg 28
210 <210> SEQ ID NO: 18
211 <211> LENGTH: 23
212 <212> TYPE: DNA
213 <213> ORGANISM: Artificial Sequence
215 <220> FEATURE:
216 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer
218 <400> SEQUENCE: 18
219 ccggatccag gttgaaccat ttt 23
221 <210> SEQ ID NO: 19
222 <211> LENGTH: 23
223 <212> TYPE: DNA
224 <213> ORGANISM: Artificial Sequence
226 <220> FEATURE:
227 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer
229 <400> SEQUENCE: 19
230 actacacttt gatgtgcatt agc 23
232 <210> SEQ ID NO: 20
233 <211> LENGTH: 24
234 <212> TYPE: DNA
235 <213> ORGANISM: Artificial Sequence
237 <220> FEATURE:
238 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer
240 <400> SEQUENCE: 20
241 caacgataag ctttaatggt ctgt 24
243 <210> SEQ ID NO: 21
244 <211> LENGTH: 21
245 <212> TYPE: DNA
246 <213> ORGANISM: Artificial Sequence
248 <220> FEATURE:
249 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer
251 <400> SEQUENCE: 21
252 taaaggctct tgaagggact t 21
254 <210> SEQ ID NO: 22
255 <211> LENGTH: 26
256 <212> TYPE: DNA
257 <213> ORGANISM: Artificial Sequence
259 <220> FEATURE:
260 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer
262 <400> SEQUENCE: 22
263 cggcgatata atgtgcacta cgaggg 26

RAW SEQUENCE LISTING DATE: 05/09/2000
PATENT APPLICATION: US/09/552,272 TIME: 16:10:11

Input Set : A:\9136600.app
Output Set: N:\CRF3\05092000\I552272.raw

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<400> SEQUENCE: 23
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<210> SEQ ID NO: 24
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<212> TYPE: DNA
<213> ORGANISM: Artificial Sequence
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<400> SEQUENCE: 24
gcacatcaaa gtgtagtaag gcaa 24
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<211> LENGTH: 21
<212> TYPE: DNA
<213> ORGANISM: Artificial Sequence
<220> FEATURE:
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<400> SEQUENCE: 25
taaagcttat cgttgatacc c 21
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<211> LENGTH: 24
<212> TYPE: DNA
<213> ORGANISM: Artificial Sequence
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<223> OTHER INFORMATION: Description of Artificial Sequence: Primer
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<211> LENGTH: 22
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VERIFICATION SUMMARY DATE: 05/09/2000
PATENT APPLICATION: US/09/552,272 TIME: 16:10:12

Input Set : A:\9136600.app
Output Set: N:\CRF3\05092000\I552272.raw

L:10 M:270 C: Current Application Number differs, Replaced Current Application Number
L:11 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:81 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:7
L:81 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:7
L:81 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:7
L:100 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:8
L:100 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:8
L:100 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:8
L:109 M:283 W: Missing Blank Line separator, <220> field identifier
L:109 M:256 W: Invalid Numeric Header Field, <220> has non-blank data
L:114 M:283 W: Missing Blank Line separator, <220> field identifier
L:114 M:256 W: Invalid Numeric Header Field, <220> has non-blank data
L:119 M:283 W: Missing Blank Line separator, <220> field identifier
L:119 M:256 W: Invalid Numeric Header Field, <220> has non-blank data
L:123 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:9
L:123 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:9